APPROVAL SHEET

Micro ATX computer case

MODEL NO.: SPK3301B-420W-PFC22-U3

Article No. : SP-AP-CP-A210 **Issue Date : Sep,7 2014** **Version : A/0**	**Audited by**

Checked by	**Drafted by**

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Approval Sheet Revisement Record

Article No: SP-AP-CP-A210

Version	Revised Chapter	Description	Revised Date	Drafted by	Audited by	ECN No.

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1 Features:

* Durable lightweight 0.4mm SPCC steel
* Contemporary & modern design
* Front USB2.0,USB3.0 & SOUND connections
* Micro ATX Compatible
* Easy installation, thumb-screw side-panel
* Optimized internal space design
* With 420W power supply unit

2 Accessories:

* User installation manual
* Screws bag
* 1.5M safety power cord

3 Specification

Color:
Font Panel: black
Side & top panel: black

Material:
Structure: 0.4mm, SPCC

Font I/O connection:
Audio & earphone x1 (Supports HD AUDIO)
USB 2.0 x2
USB3.0 x1

Drive bays:
3.5” bays: 3--- 1 external,2 internal
5.25 “bays: 1--- 1 external
2.5 “bays: 1--- 1 internal
.....

Motherboard:
- 9.6" x 9.6" (Micro ATX) 244*244 mm，-

Bracket slots：4

Cooling:
Front:8/12 cm fan space
Rear:8/9 cm fan space

PSU compatible: ATX(included ATX-420W-PFC-N-PSU)

Installation:
Hand screw side panel

Dimensions&Weight：
Product：380*175*352(D*W*H) N.W 3.9kg
Packaging：392*214*426mm (L*W*H) G.W 4.6kg

4.PSU: ATX-420W-PFC-N-PSU:

ATX-420W-PFC-N-PSU: 220V, 420W psu,120mm FAN,20+4pin,3SATA,2IDE,1FLOPPY,12V4pin,CE,PFC Matel case,1.5M Safety power cord.

Features	Intel ATX 1.3 Specification Compliant Supports the newest Intel and AMD Micro-Processors I/O Short Circuit & Overload /OVP/OLP/ SCP Protection SATA Power Connector
Dimensions	140mm(L)X150mm(W)X85mm(H)
Version	ATX 12V Ver 1.3
Connectors	20+4pin 1PCS, 12V 4pin 1PCS,SATA 3PCS,, IDE (Molex) 4pin 2PCS, Floppy 4pin 1PCS
Cables	20+4pin 1PCS, 12V 4pin 1PCS, 1IDE (Molex) /1SATA/Floppy 1PCS,1IDE (Molex) /2SATA 1PCS
Case	0.6mm Matel case
PFC Function	PPFC
Rated Voltage	200~240 Vac
Frequency	50~60 Hz
Current	4A for 230VAC
Hold-up Time	16 ms(min)
Nom. Power	420W
P.G. Signal	100~500ms
Voltage Protection	+12V trip point 13.4V - 15.6V +5V trip point 5.74V - 7.0V +3.3V trip point 3.76V - 4.3V
Noise Level	21 dBA Max
Cooling	1 x 120mm fan
MTBF	100,000 Hours
Application	Intel Pentium 4,Intel Celeron D,Intel Core 2,Intel Core 2 Due,Intel Core 2 Extreme/AMD Athlon 64X2,AMD Athlon 64 FX,AMD Athlon 64,etc.
Operating Temperature	0~40℃
Storage Temperature	-20~60℃
Warranty	2 Years

5 Correlative Certification compliance

Item #	Certification type	Certification Number	Certification listing	Remark
	EMC	BST10120023 ER-1	WWW.BST-LAB.COM	
	LVD	BST10120023 SC-2	WWW.BST-LAB.COM	

6 Pictures:

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RoHS Declaration of Conformity

Spire hereby declares under our sole responsibility that the product:

Part number: **SPK3301B-420W-PFC22-U3**

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Is tested and approved in compliance with the EUROPEAN COUNCIL ROHS DERECTIVE.

(Restriction of Hazardous Substances) which will restrict the use of certain substances in electrical and electronic products: including lead (Pb), mercury, cadmium, hexavalent chromium, and certain halide-containing flame retardants. The directive applies to all electrical and electronic products, their component parts that are placed on the market after July 1, 2006.

Spire Coolers Corp.
PM Engineering Dept.

Nanshan,Shenzhen